

◆ Metal Alloys[Alloy Home](#)**◆ Aluminum Alloys**[General Information](#)[Properties](#)[Temper](#)**◆ Al Alloy Types**[Cast Alloys](#)[Wrought Alloys](#)**◆ Al Alloy List**[Wrought:](#)[AA 1xxx](#)[AA 2xxx](#)[AA 3xxx](#)[AA 4xxx](#)[AA 5xxx](#)[AA 6xxx](#)[AA 7xxx](#)[Cast:](#)[2xx.0 or x2xx.0](#)[3xx.0 or x3xx.0](#)[4xx.0 or x4xx.0](#)[5xx.0 or x5xx.0](#)[7xx.0](#)[8xx.0](#)**◆ Specific Al Alloy**[General Information](#)**◆ Resources**[Bibliography](#)**◆ Free Magazines**[Design News](#)[Machine Design](#)[Rubber&Plastics](#)[News](#)[MoldMaking Tech](#)[Desktop Engineering](#)[Semiconductor Mfg](#)[more...](#)**◆ Login**Certified titanium, hi-temp, super & exotic
aerospace metal alloysTechstreet sells ASM materials data sheets:
metals, ceramics, polymers[Ads by Google](#)**AA 3003****Category** Aluminum Alloy**Class** Wrought**Composition****Element** **Weight %**

Al 98.6

Cu 0.12

Mn 1.2

Mechanical Properties

	Properties	Conditions	
		T (°C)	Treatment
Density ($\times 1000 \text{ kg/m}^3$)	2.73	25	
Poisson's Ratio	0.33	25	
Elastic Modulus (GPa)	70-80	25	
Tensile Strength (Mpa)	130		
Yield Strength (Mpa)	125	25	H12 more
Elongation (%)	10		
Reduction in Area (%)			
Hardness (HB500)	35	25	H12 more
Shear Strength (MPa)	83	25	H12 more
Fatigue Strength (MPa)	55	25	H12 more

Thermal Properties

Thermal Expansion ($10^{-6}/^{\circ}\text{C}$)	23.2	20-100	
Thermal Conductivity (W/m-K)	162	25	H12 more

Electric Properties

Properties	Conditions		
		T ($^{\circ}\text{C}$)	Treatment
Electric Resistivity (10^{-9}W-m)	41	25	H12 more

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